



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of : Doron HANDELMAN  
Serial No. : 10/619,413  
Filed : July 16, 2003  
For : DEVICES AND METHODS FOR ALL-OPTICAL  
PROCESSING AND STORAGE

Group Art Unit: **Not yet assigned**  
Examiner: **Not yet assigned**

**INFORMATION DISCLOSURE STATEMENT**

Director of the United States Patent and Trademark Office  
US Patent and Trademark Office  
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Sir:

In accordance with 37 CFR 1.97, enclosed is a copy of the following PTO Form SB/08A listing references which may be material to the patentability of the present application.

Also enclosed are copies of the references cited. These are being submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

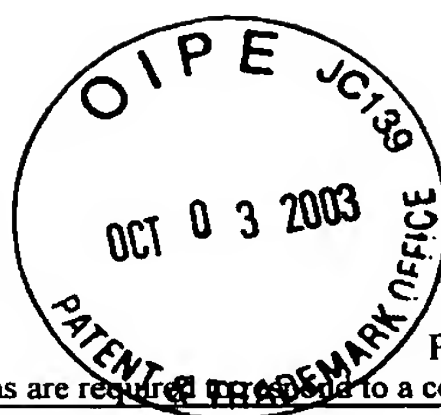
This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Respectfully submitted,

Doron Handelman

Date: September 30, 2003

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				Application Number	10/619,413
				Filing Date	July 16, 2003
				First Named Inventor	Handelman
				Group Art Unit	
				Examiner Name	
Sheet	1	of	15	Attorney Docket Number	

U.S. PATENT DOCUMENTS						
Examiners Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, columns, lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AA	4,626,075		Chemla	12-02-1986	
	AB	4,726,010		Ali et al	02-16-1988	
	AC	5,170,273		Nishio	12-08-1992	
	AD	5,191,457		Yamazaki	03-02-1993	
	AE	5,194,977		Nishio	03-16-1993	
	AF	5,319,484		Jacob et al	06-07-1994	
	AG	5,325,222		Jacob et al	06-28-1994	
	AH	5,416,625		Cavaciuti et al	05-16-1995	
	AI	5,452,115		Tomioka	09-19-1995	
	AJ	5,457,687		Newman	10-10-1995	
	AK	5,557,439		Alexander et al	09-17-1996	
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	AM	5,712,932		Alexander et al	01-27-1998	
	AN	5,724,167		Sabella	03-03-1998	
	AO	5,739,935		Sabella	04-14-1998	
	AP	5,774,244		Tandon et al	06-30-1998	
	AQ	5,867,289		Gertsel et al	02-02-1999	
	AR	5,953,138		Ellis	09-14-1999	

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Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AS	Mining the optical bandwidth for a terabit per second, Alan Eli Willner, IEEE Spectrum, April 1997, Pages 32-41	
	AT	Record data-transmission rate reported at ECOC '96, Laser Focus World, November 1996, pages 40-42	

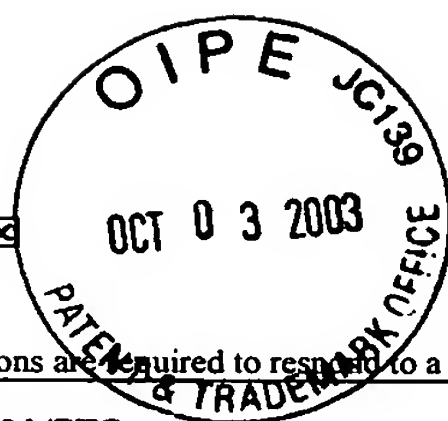
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		Number	Kind Code <sup>2</sup> (if known)			
	AU	6,023,360		Morioka et al	02-08-2000	
	AV	6,108,112		Touma	8-22-2000	
	AW	6,204,944		Uchiyama et al	03-20-2001	
	AX	6,233,082		Johnson	05-15-2001	
	AY	6,288,808		Lee et al	09-11-2001	
	AZ	6,314,115		Delfyett et al	11-06-2001	
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	BD	2002/0048067		Handelman et al	04-25-2002	
	BE	2003/0043430		Handelman	03-06-2003	
	BF	2003/0048506		Handelman	03-13-2003	

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	BG	Multiple wavelengths exploit fiber capacity, Eric J. Lerner, Laser Focus World, July 1997, pages 119-125	
	BH	Advances in dense WDM push diode-laser design, Diana Zankowsky, Laser Focus World, August 1997, pages 167-171	
	BI	Multistage amplifier provides gain across 80 nm, Kristin Lewotsky, Laser Focus World, September 1997, pages 22-24	
	BJ	Optical switching promises cure for telecommunications logjam, Jeff Hecht, Laser Focus World, September 1998, pages 69-72	
	BK	Optical Switches Ease Bandwidth Crunch, EuroPhotonics, Rien Flipse, August/September 1998, pages 44-45	

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	BL	Speed Demons: Is 'Faster' Better and Cheaper? Stephanie A. Weiss, Photonics Spectra, February 1999, pages 96-102	
	BM	Wavelength Lockers Keep Lasers in Line, Ed Miskovic, Photonics Spectra, February 1999, pages 104-110	
	BN	Optical switches pursue crossconnect markets, Hassaun Jones-Bey, Laser Focus World, May 1998, pages 153-162	
	BO	Demand triggers advances in dense WDM components, Raymond Nering, Optoelectronics World, September 1998, pages S5-S8	
	BP	Optical Networks Seek Reconfigurable Add/Drop Options, Hector E. Escobar, Photonics Spectra, December 1998, pages 163-167	
	BQ	Ultrafast Optical Switch Unveiled, Photonics Spectra, Michael D. Wheeler, December 1998, page 42	
	BR	Data Express, Gigabit Junction with the Next-Generation Internet, John Collins et al, IEEE Spectrum, February 1999, pages 18-25	
	BS	Designing Broadband Fiber Optic Communication Systems, Juan F. Lam, Communication Systems Design, February 1999	
	BT	Terabit/second-transmission demonstrations make a splash at OFC '96, Laser Focus World, April 1996, page 13	
	BU	Multigigabit Networks: The Challenge, Claude Rolland et al., IEEE LTS, May 1992, pages 16-26	

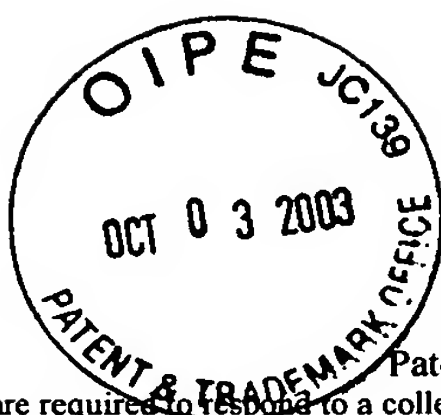
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	BV	Direct Detection Lightwave Systems: Why Pay More? Paul Green et al., IEEE LCS, November 1990, pages 36-49	
	BW	Photonics in Switching, Scott Hinton, IEEE LTS, August 1992, pages 26-35	
	BX	Advanced Technology for Fiber Optic Subscriber Systems, Hiromu Toba et al., IEEE LTS, November 1992, pages 12-18	
	BY	Fiber amplifiers expand network capacities, Eric J. Lerner, Laser Focus World, August 1997, pages 85-96	
	BZ	Technologies for Local-Access Fiber, Yukou Mochida, IEEE Communications Magazine, February 1994, pages 64-73	
	CA	Wavelength Assignment in Multihop Lightwave Networks, Aura Ganz et al., IEEE Transactions on Communications, Vol. 42, No. 7, July 1994, pages 2460-2469	
	CB	Wavelength-Division Switching Technology in Photonic Switching Systems, Suzuki et al., IEEE International Conference on Communications, ICC 1990, pages 1125-1129	
	CC	Branch-Exchange Sequences for Reconfiguration of Lightwave Networks, Labourdette et al., IEEE Transactions on Communications, Vol. 42, No. 10, October 1994, pages 2822-2832	
	CD	Use of Delegated Tuning and Forwarding in Wavelength Division Multiple Access Networks, Auerbach et al., IEEE Transactions on Communications, Vol. 43, No. 1, January 1995, pages 52-63	

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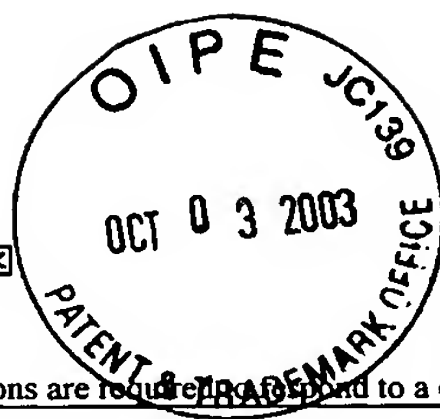
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	CE	Combining gratings and filters reduces WDM channel spacing, Pan and Shi, Optoelectronics World, September 1998, pages S11-S17	
	CF	Optical amplifiers revolutionize communications, Laser Focus World, September 1998, pages 28-32	
	CG	Variable optical delay circuit using wavelength converters, T. Sakamoto et al, Electronics Letters, Vol. 37, No. 7, 29 March 2001, Pages 454-455	
	CH	Design and Cost Performance of the Multistage WDM-PON Access Networks, Guido Maier et al., Journal of Lightwave Technology, Vol. 18, No. 2, February 2000, pages 125-143	
	CI	Polarization Insensitive Widely Tunable All-Optical Clock Recovery Based on AM Mode-Locking of a Fiber Ring Laser, IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 211-213	
	CJ	Ultra-High-Speed PLL-Type Clock Recovery Circuit Based on All-Optical Gain Modulation in Traveling-Wave Laser Diode Amplifier, Satoki Kawanishi et al., Journal of Lightwave Technology, Vol. 11, No. 12, December 1993, pages 2123-2129	
	CK	All-optical networks need optical switches, Jeff Hecht, Laser Focus World, May 2000, pages 189-196	
	CL	Photons at Work: Optical Networks on The Rise, Lee Goldberg, Electronic Design, March 22, 1999, pages 56-66	
	CM	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 46, pages 622-649	

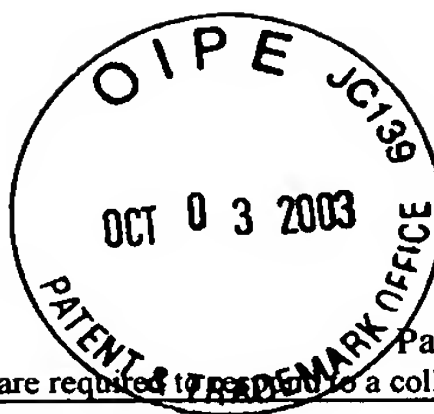
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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	CN	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 51, pages 686-700	
	CO	Picosecond-Accuracy All-Optical Bit Phase Sensing Using a Nonlinear Optical Loop Mirror, Hall et al., IEEE Photonics Technology Letters, Vol. 7, No. 8, August 1995, pages 935-937	
	CP	An Ultrafast Variable Optical Delay Technique, Hall et al., IEEE Photonics Technology Letters, Vol. 12, No. 2, February 2000, pages 208-210	
	CQ	Prescaled 6.3 GHz clock recovery from 50 Gbit/s TDM optical signal with 50 GHz PLL using four-wave mixing in a traveling-wave laser diode optical amplifier, Electronics Letters, 12 May 1994, Vol. 30, No. 10, pages 807-809	
	CR	Variable optical delay line with diffraction-limited autoalignment, Klovekorn and Munch, Applied Optics, 1 April 1998, Vol. 37, No. 10, pages 1903-1904	
	CS	Compact 40 Gbit/s optical demultiplexer using a GaInAsP optical amplifier, Electronics Letters, 25 November 1993, Vol. 29, No. 24, pages 2115-2116	
	CT	Lucent Upgrades WaveStar to 320-Channel, 800-Gb/s Transmission; Chalmers Develops 49-dB Optical Parametric Amplifier, Photonics Spectra, June 2000, page 46	
	CU	Bit-Rate Flexible All-Optical Demultiplexing Using a Nonlinear Optical Loop Mirror, Patrick et al., Electronics Letters, 15 April 1993, Vol. 29, No. 8, pages 702-703	
	CV	All-Optical High Speed Demultiplexing with a Semiconductor Laser Amplifier in a Loop Mirror Configuration, Eiselt et al., Electronics Letters, 24 June 1993, Vol. 29, No. 13, pages 1167-1168	

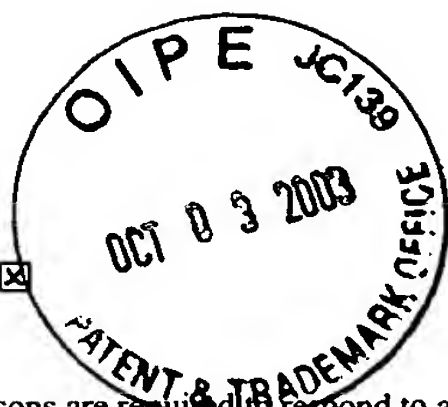
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	CW	Single interferometer demultiplexes 40 Gbit/s optical-time-division-multiplexed signal, Laser Focus World, November 1999, page 11	
	CX	Fiber-Optic Chips Multiplex 16 T1/E1 Channels Over One Cable, Electronic Design, April 17, 2000, page 46	
	CY	Analysis and Dimensioning of Switchless Networks for Single-Layer Optical Architecture, Binetti et al., Journal of Lightwave Technology, Vol. 18,. No. 2, February 2000, pages 144-153	
	CZ	100-Gbit/s bitwise logic, Hall et al., Optics Letters, Vol. 23, No. 16, August 15, 1998, pages 1271-1273	
	DA	An Optical Technique for Bit and Packet Synchronization, Blixt and Bowers, IEEE Photonics Technology Letters, Vol. 7, No. 1, January 1995, pages 123-125	
	DB	Double-Spreading Modulation Scheme Picks Up Where CDMA and TDMA Leave Off, Electronic Design, July 10, 2000, pages 28-32	
	DC	Transmission of a True Single Polarisation 40 Gbit/s Soliton Data Signal Over 205km Using a Stabilised Erbium Fibre Ring Laser and 40 GHz Electronic Timing Recovery, Ellis et al., Electronics Letters, Vol. 29, No. 11, 27 May 1993, pages 990-992	
	DD	Time-Stretch Methods Capture Fast Waveforms, Jalali et al., Microwaves & RF, April 1999, pages 62-69	
	DE	The Fiber-Optic Subscriber Network in Japan, Wakui, IEEE Communications Magazine, February 1994, pages 56-63	

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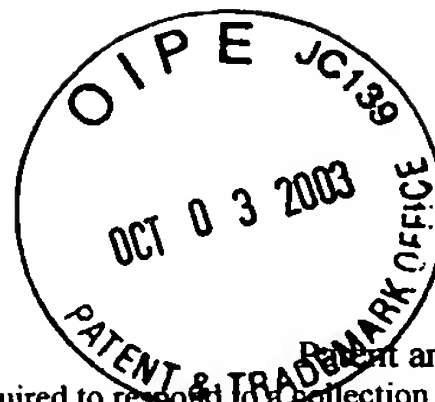
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	DF	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 37, pages 513-528	
	DG	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 39, pages 542-553	
	DH	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 40, pages 554-564	
	DI	Architectural and Technological Issues for Future Optical Internet Networks, Listanti, et al., IEEE Communications Magazine, September 2000, pages 82-92	
	DJ	IP over Optical Networks: Architectural Aspects, Rajagopalan, et al., IEEE Communications Magazine, September 2000, pages 94-102	
	DK	Labeled Optical Burst Switching for IP-over-WDM Integration, Chunming Qiao, IEEE Communications Magazine, September 2000, pages 104-114	
	DL	Approaches to Optical Internet Packet Switching, Hunter, et al., IEEE Communications Magazine, September 2000, pages 116-122	
	DM	Photonic Switches: Fast, but Functional?, McCarthy, Photonics Spectra, March 2001, pages 140-150	
	DN	WDM Local Area Networks, Kazovsky et al., IEEE LTS, May 1992, pages 8-15	
	DO	Fiber-based components meet the needs of next-generation amplifiers, Bourgeois, WDM Solutions, March 2001, pages 67-74	
	DP	Spectral equalization keeps optical signals in line, Ashmead, WDM Solutions, January 2001, pages 32-38	
	DQ	Keep Your Photons in Line, Wesson et al., Photonics Spectra, September 1999, pages 102-108	

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			Group Art Unit		
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	DR	Router Promises Faster Switching, Robinson, Photonics Spectra, August 2001, page 24	
	DS	On a dynamic wavelength assignment algorithm for wavelength routed all-optical networks, Andrei G. Stoica, et al., Optical Networks Magazine, January/February 2002, pages 68 – 80	
	DT	XOR: A Logical Choice of All-Optical Networks, Perry J. Greenbaum, Photonics Spectra, November 2001, pages 30 - 31	
	DU	On adaptive routing in wavelength-routed networks, Ching-Fang Hsu, et al., Optical Networks Magazine, January/February 2002, pages 15 – 24	
	DV	A comparative study of distributed protocols for wavelength reservation in WDM optical networks, Debashis Saha, Optical Networks Magazine, January/February 2002, pages 45-52	
	DW	A framework for unified traffic engineering in IP over WDM networks, Jinhan Song, et al., Optical Networks Magazine, November/December 2001, pages 28 – 33	
	DX	Optimization of wavelength allocation in WDM optical buffers, Franco Callegati, et al., Optical Networks Magazine, November/December 2001, pages 66 – 72	
	DY	A simple dynamic integrated provisioning/protection scheme in IP over WDM networks, Yinghua Ye, et al., IEEE Communications Magazine, November 2001, pages 174 – 182	
	DZ	Photonic packet switching and optical label swapping, Daniel J. Blumenthal, Optical Networks Magazine, November/December 2001, pages 54 – 65	

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	EA	Intelligent Optical Networking for Multilayer Survivability, Sophie de Maesschalck, et al., IEEE Communications Magazine, January 2002, pages 42 – 49	
	EB	Crystal slows and stops light, John Wallace, Laser Focus World, February 2002, Vol. 38, No. 2, pages 36 – 37	
	EC	Decision feedback loop compensates at 10 Gbit/s, Hassaun Jones-Bey, Laser Focus World, May 2000, pages 65 - 67	
	ED	Alcatel Displays 1.6-Tb/s Transmission, Photonics Spectra, December 2001, page 18	
	EE	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 61, pages 832-847	
	EF	The Communications Handbook, Jerry D. Gibson, 1997, CRC Press, Inc., Chapter 65, pages 883-890	
	EG	Optical Signal Processing for Optical Packet Switching Networks, Blumenthal et al, IEEE Optical Communications, February 2003, pages S23 – S29	
	EH	100-km Negative-Dispersion Fiber Carries 10 Gb/s, Gaughan, Photonics Spectra, November 2001, page 42	
	EI	Managing Polarization Mode Dispersion, Chbat, Photonics Spectra, June 2000, pages 100 – 104	
	EJ	Dynamic Dispersion Compensation: When and Where Will It Be Needed? Huff et al., Photonics Spectra, December 2001, pages 122 – 125	
	EK	Dispersion management is vital for high-speed systems, Jeff Hecht, Laser Focus World, July 2001, pages 79 – 83	
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	EM	Dispersion Compensation Gratings for the C-Band, Brennan, Photonics Spectra, June 2001, Pages 159 – 165	
	EN	Hot rubidium slows light speed to 90 m/s, Kash, Laser Focus World, August 1999, page 11	
	EO	Network demonstrates 1500-km unregenerated transmission at 40 Gbit/s, Hamre, Laser Focus World, July 2001, page 11	
	EP	Electroholographic switches are fast and compact, Agranat, Laser Focus World, May 2001, pages 109 – 111	
	EQ	Switch based on SOA achieves femtosecond switching, Nakamura, Laser Focus World, September 2001, page 9	
	ER	Next-generation networks may benefit from SOAs, Young, Laser Focus World, September 2001, pages 73 – 79	
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	EU	Array-based VOAs offer compact signal control, Nigel Cockroft, WDM Solutions, June 2001, pages 81 – 85	
	EV	Semiconductor Optical Amplifier-Based All-Optical Gates for High-Speed Optical Processing, Kristian E. Stubkjaer, IEEE Journal on Selected Topics in Quantum Electronics, Vol. 6, No. 6, November/December 2000, pages 1428 – 1435	
	EW	All-optical switching for high bandwidth optical networks, M. J. Potasek, Optical Networks Magazine, November/December 2002, pages 30 - 43	

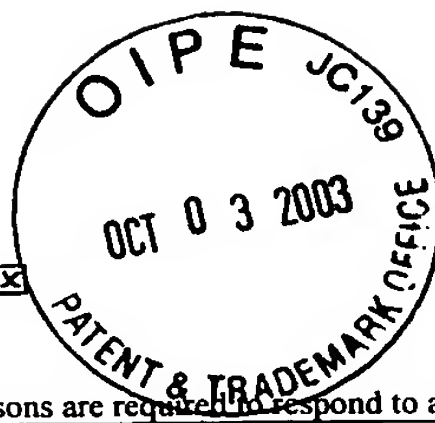
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	EX	80Gbit/s all-optical regenerative wavelength conversion using semiconductor optical amplifier based interferometer, Kelly et al, Electronics Letters, Vol. 35, No. 17, 19 August 1999, pages 1477 – 1478	
	EY	Demultiplexing of 168-Gb/s Data Pulses with a Hybrid-Integrated Symmetric Mach-Zehnder All-Optical Switch, Nakamura et al, IEEE Photonics Technology Letters, Vol. 12, No. 4, April 2000, pages 425 – 427	
	EZ	All-Optical 2R Regeneration Based on Polarization Rotation in a Linear Optical Amplifier, Zhao et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 305 – 307	
	FA	All-Optical Data Format Conversion Between RZ and NRZ Based on a Mach-Zehnder Interferometric Wavelength Converter, Xu et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 308 - 310	
	FB	All-optical wavelength converter scheme for high speed RZ signal formats, Mikkelsen et al, Electronics Letters, Vol. 33, No. 25, 4 December 1997, pages 2137 – 2139	
	FC	Penalty-Free Error-Free All-Optical Data Pulse Regeneration at 84 Gb/s by Using a Symmetric-Mach-Zehnder-Type Semiconductor Regenerator, Ueno et al, IEEE Photonics Technology Letters, Vol. 13, No. 5, May 2001, pages 469 – 471	
	FD	40-Gb/s All-Optical Wavelength Conversion, Regeneration, and Demultiplexing in an SOA-Based All-Active Mach-Zehnder Interferometer, Wolfson et al, IEEE Photonics Technology Letters, Vol. 12, No. 3, March 2000, pages 332 - 334	

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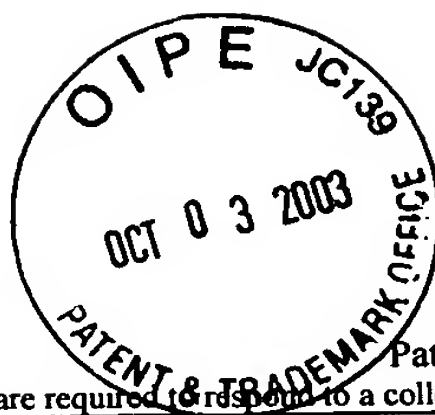
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	FE	Compensation fibre chromatic dispersion by optical phase conjugation in a semiconductor laser amplifier, Tatham et al, Electronics Letters, Vol. 29, No. 21, 14 October 1993, pages 1851 – 1852	
	FF	All-Optical 2R Regeneration of 40-Gb/s Signal Impaired by Intrachannel Four-Wave Mixing, Su et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 350 – 352	
	FG	1-Tb/s 16-b All-Optical Serial-to-Parallel Conversion Using a Surface-Reflection Optical Switch, Takahashi et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 287 – 289	
	FH	Wavelength Switching Components for Future Photonic Networks, White et al., IEEE Communications Magazine, September 2002, pages 74 – 81	
	FI	Ultrafast (200-fs Switching, 1.5-Tb/s Demultiplexing) and High-Repetition (10GHz) Operations of a Polarization-Discriminating Symmetric Mach-Zehnder All-Optical Switch, Nakamura et al, in IEEE Photonics Technology Letters, Vol. 10, No. 11, November 1998, pages 1575 – 1577	
	FJ	Ultrafast high-contrast all-optical switching using spin polarization in low-temperature-grown multiple quantum wells, Takahashi et al, Applied Physics Letters, Vol. 77, No. 19, 6 November 2000, pages 2958 – 2960	
	FK	Compensation for channel dispersion by nonlinear optical phase conjugation, Yariv et al, Optics Letters, Vol. 4, No. 2, February 1979, pages 52 - 54	
	FL	Architecture of Ultrafast Optical Packet Switching Ring Network, Takada et al, Journal of Lightwave Technology, Vol. 20, No. 12, December 2002, pages 2306 – 2315	

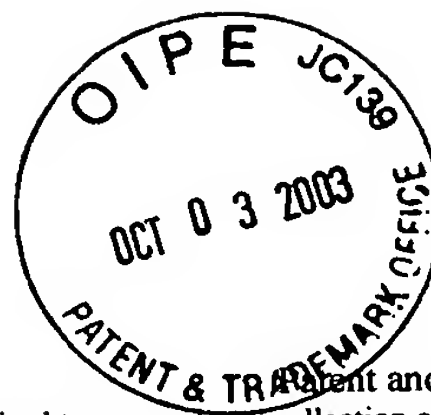
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	FM	Monolithically Integrated 2 x 2 InGaAsP/InP Laser Amplifier Gate Switch Arrays, Janson et al, Electronics Letters, Vol. 28, No. 8, 9 April 1992, pages 776 – 778	
	FN	Monolithically Integrated 4 x 4 InGaAsP/InP Laser Amplifier Gate Switch Arrays, Gustavsson et al, Electronics Letters, Vol. 28, No. 24, 19 November 1992, pages 2223 – 2225	
	FO	All-Optical Triode Based on a Tandem Wavelength Converter Using Reflective Semiconductor Optical Amplifiers, Maeda et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 257 – 259	
	FP	160-Gb/s Optical-Time-Division Multiplexing With PPLN Hybrid Integrated Planar Lightwave Circuit, Ohara et al, IEEE Photonics Technology Letters, Vol. 15, No. 2, February 2003, pages 302 – 304	
	FQ	Low-temperature-grown surface-reflection all-optical switch (LOTOS), Ryo Takahashi, Optical and Quantum Electronics, Vol. 33, 2001, pages 999 - 1017	
	FR	Ultrafast 168 GHz 1.5 ps 1 fJ Symmetric-Mach-Zehnder-Type All-Optical Semiconductor Switch, Ueno et al, Japan Journal of Applied Physics, Vol. 39 (2000) pages L806 – L808, Part 2, No. 8A, 1 August 2000	
	FS	Semiconductor Arrayed Waveguide Gratings for Photonic Integrated Devices, Yuzo Yoshikuni, IEEE Journal of Selected Topics in Quantum Electronics, Vol. 8, No. 6, November/December 2002, pages 1102 – 1114	
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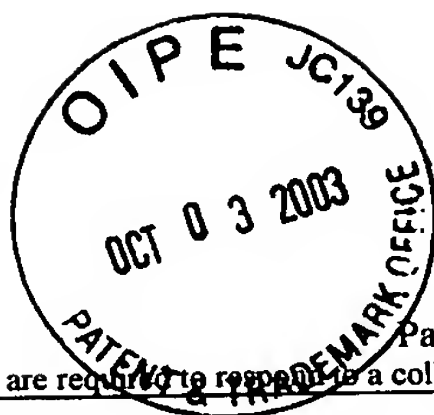
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	FU	The New Indelible Memories, Linda Geppert, IEEE Spectrum, March 2003, pages 49 – 54	
	FV	Integration of waveguide devices aims to reduce costs, Jeff Hecht, Laser Focus World, September 2002, pages 113 – 117	
	FW	Band architecture improves performance, Marshall et al, Laser Focus World, September 2002, pages S7 – S10	
	FX	Optical information processing awaits optoelectronic devices, Francis Yu, Laser Focus World, September 2002, pages 71 - 74	
	FY	Monolithic Integration of a Semiconductor Optical Amplifier and a High Bandwidth p-i-n Photodiode Using Asymmetric Twin-Waveguide Technology, Xia et al, IEEE Photonics Technology Letters, Vol. 15, No. 3, March 2003, pages 452 - 454	
	FZ	Optical crossconnect architectures for wavelength-routed WDM networks, Xiangdong Qin and Yuanyuan Yang, Optical Networks Magazine, July/August 2003, pages 50 – 63	

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